

PATENT

Atty. Dkt. No. 2000-0351

IN THE CLAIMS

1. (Original) A method of operating a content distribution network switch in a content distribution network comprising the steps of:

receiving a packet from a client associated with a secure communication connection;

extracting information from the packet to identify a cache server in the content distribution network that has state information on the secure communication connection; and

directing the packet towards the identified cache server.

2. (Original) The invention of claim 1 wherein the information extracted from the packet comprises a session identifier used to compute a label identifying the cache server.

3. (Original) The invention of claim 2 wherein the label identifying the cache server is computed from the session identifier by a function $f(\text{SID})$ where SID is the session identifier.

4. (Original) The invention of claim 3 wherein the function $f(\text{SID}) = \text{SID} \bmod n + 1$ where n is the number of cache servers that can store the state information on the secure communication connection.

5. (Original) The invention of claim 4 wherein the secure communication connection is a Secure Sockets Layer connection.

6. (Original) The invention of claim 1 wherein the information extracted from the packet comprises a client address which is associated with a cache server.

7. (Original) The invention of claim 6 wherein associations between client address and cache server are stored in a table.

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8. (Original) The invention of claim 7 wherein the secure communication connection is a Secured Sockets Layer connection.

9. (Original) The invention of claim 6 wherein associations between client address and cache server are generated by a hash function.

10. (Original) The invention of claim 9 wherein the secure communication connections is a Secure Sockets Layer connection.

11. (Currently Amended) A method of operating a cache server in a content distribution network comprising the steps of:

selecting a session identifier that may be utilized by a content distribution network switch to direct packets associated with a secure communication connection to the cache server; and

negotiating a secure communication connection with a client; and
maintaining state information for said secure communication connection.

12. (Original) The invention of claim 11 wherein the session identifier can be used to compute a label identifying the cache server using a function $f(\text{SID})$ where SID is the session identifier.

13. (Original) The invention of claim 12 wherein the function $f(\text{SID}) = \text{SID} \text{ MOD } n + 1$ where n is the number of cache servers that can store the state information on the secure communication connection.

14. (Original) The invention of claim 13 wherein the secure communication connection is a Secure Sockets Layer connection.

15. (Original) A method of operating a cache server in a content distribution network comprising the steps of:

negotiating a secure communication connection with a client;

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creating state information necessary for reuse of the secure communication connection with the client;

sharing the state information with other cache servers in the content distribution network to which the client requests may be redirected.

16. (Original) The invention of claim 15 wherein the secure communication connection is a Secure Sockets Layer connection.